



*... for a brighter future*

## *EPICS Codeathon 2008*

*Andrew Johnson, Argonne*



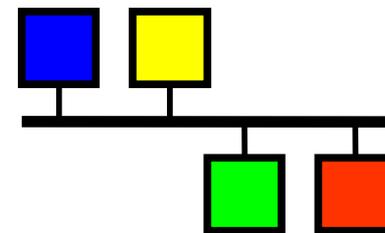
U.S. Department  
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# EPICS



# What's a “Codeathon”?

- Coding Marathon, also called a Hackathon or Code Sprint
- Popular in many open source projects
  - Make progress on specific development efforts
  - Face-to-face discussions between developers
  - Introduce new developers to project internals
  - Code testing and debugging
  - Clear up bug reports
  - Write documentation
- Concentrated effort to make significant progress on the project

# EPICS Codeathon 2008

- Held at Argonne from April 14-18
- 12 people attended
  - Core developers (Janet Anderson, Jeff Hill, Andrew Johnson, Marty Kraimer, Ralph Lange, Eric Norum)
  - Experienced developers (Peter Denison, John Hammonds, Artem Kazakov, John Sinclair)
  - Relative newcomers (Kazimierz Gofron, Krzysztof Lazarski)
- Drop-in visitors
  - Ned Arnold, John Maclean, Tim Mooney

# Evidence



## ***Projects: For Base R3.14.10***

- General Time infrastructure integrated
  - Peter Denison and Eric Norum
- Redundant IOC hooks
  - Andrew Johnson and Jeff Hill
- Change subRecord's SNAM field at runtime
  - Kazimierz Gofron
- ANSIfication and cleanup of \*Record.c files
  - John Hammonds
- MakefileInclude elimination
  - Janet Anderson
- Build system patches from Diamond and BESSY
  - Janet Anderson
- R3.14 Record Reference manual wiki pages
  - Kazimierz Gofron

## *Projects: For Base R3.15 or later*

- Channel Access over TCP implemented (SSH tunneling)
  - Ralph Lange and Jeff Hill
- Record DBD to HTML/Wiki table conversion
  - John Hammonds
- Calc Parser with variable names, for use in CA with Data Access
  - John Sinclair
- Process Notify infrastructure enhancements
  - Marty Kraimer

## *Projects: ASYN etc.*

- ASYN Extended device support, I/O address changes at runtime
  - Krzysztof Lazarski
- ASYN design for single-use TCP circuits (HTTP etc.)
  - Eric Norum
- Regression Test suite automation
  - Artem Kazakov
- ProcServ Enhancements from Dave Thompson
  - Ralph Lange

# Conclusions

- Definitely worthwhile
  - Many useful projects worked on, most completed
  - Introduced people to new development areas
- Should definitely be repeated
  - Where?
  - When?
  - How often?
    - *Can my boss afford to send me?*